



# HF Happenings 798

Volume 16, Issue 8, the week of 4 June 2018

You can now download your copy of HF Happenings from [www.sarl.org.za/hf\\_happenings.asp](http://www.sarl.org.za/hf_happenings.asp)



Maletsunyane Falls in Lesotho

## Hammies Sprint

This is a fun activity to promote contacts between Hammies and radio amateurs in Southern African countries with an emphasis on ZU stations and takes place from 14:00 to 15:00 UTC on Sunday 10 June 2018 with phone activity between 7 063 to 7 100 and 7 130 to 7 200 kHz.

The exchange is RS report and provincial abbreviation, stations outside South Africa will give a RS report and DX.

Contacts with stations in the same ZS region are worth 1 point and contacts with stations in other ZS regions or DX stations are worth 2 points. Contacts with the Hammies ARC, ZS1ZU, ZS2ZU, ZS3ZU, ZS4ZU and ZS6ZU or any other Hammies ARC that may be registered at the time are worth 5 points. Contacts with any ZU station are worth 3 points and contacts between ZU stations are worth 5 points.

Logs, in ADIF, Cabrillo or MS Excel format and labelled "my call sign Hammies," shall be submitted by 17 June 2017 and sent by e-mail to [chairman@zs6zu.org.za](mailto:chairman@zs6zu.org.za) or [zr6dx@africa.com](mailto:zr6dx@africa.com). Certificates will be awarded to the First, Second and Third place and certificates will be awarded to the First, Second and Third place for ZU stations.

## DXCC News

It has been reported that the recent 9M0W Spratly Island DXpedition has received DXCC approval. The 9M0W team has also received their LoTW certificate and will soon be uploading all QSOs that have been requested through ClubLog's OQRS and any direct requests.

## DXCC'S Most Wanted (Club Log)

The "DXCC Most Wanted" entities list has been updated on Club Log as of 28 May. The list contains 340 entities. The complete DXCC Most Wanted entities list is available at <https://secure.clublog.org/mostwanted.php> and here are the top 10 entities:

## June

- 4 – World Environmental Day
- 7 to 9 – Bonitas Comrades Expo
- 8 – World Oceans Day
- 8 to 10 – Taste the Helderberg, Somerset West
- 8 to 17 – Hermanus FynArts Festival
- 10 – **Hammies Sprint**; the Comrades Marathon
- 13 to 17 – Port St Johns Umngazi Pondo Pedal
- 15 - Eid-al-Fitr
- 15 to 17 – Napier Wine and Patatfees; Calitzdorp Port and Wine Festival
- 16 – Youth Day; **East Rand ARC Flea Market**; Franschhoek Winter Wines Festival
- 17 – Father's Day; **World QRP Day; closing date for Hammies log sheets**
- 21 – Winter Solstice
- 21 to 25 – **SARL Top Band QSO Party**
- 22 – all schools close; **closing date for the July Radio ZS articles**
- 22 to 24 – Morgan's Bay Footprint Festival
- 23 – **Cape Town ARC meeting**
- 24 – Blairgowrie Collectors Toy Fair at the Blairgowrie Recreation Centre, Randburg
- 27 to 30 – InniBos Kunstefees, Nelspruit
- 30 – World Asteroid Day; **end of the SARL Financial year**

## July

- 1 - Start of SARL Financial Year and Membership payment is due; **ZS5 Sprint**
- 2 - Closing date Top Band logs
- 7 - **SARL Newbie QSO Party**
- 9 - Closing date ZS5 Sprint logs
- 13 - *Friggatriskaidekaphobia*
- 14 - **IARU HF Championships and WRTC 2018; October RAE registration opens; Radar Challenge; West Rand ARC AGM**
- 15 - **IARU HF Championships and WRTC 2018**; The Battle of Delville Wood - 15 to 20 July 1916
- 16 - Closing date Newbie logs
- 17 - Provincial schools open
- 21 - **Winter QRP contest; Pretoria ARC Flea Market**
- 22 - **ZS2 Sprint**
- 25 - **Closing date for August Radio ZS**

1. P5 DPRK (North Korea)
2. 3Y/B Bouvet Island
3. FT5/W Crozet Island
4. BS7H Scarborough Reef
5. KH1 Baker Howland Islands
6. CEOX San Felix Islands
7. BV9P Pratas Island
8. KH7K Kure Island
9. KH3 Johnston Island
10. VK0M Macquarie Island

### Club Log

Over a half a billion QSOs have now been uploaded to Club Log. The 500 000 000<sup>th</sup> QSO (between W4PG and ZL1BQD on 17 m FT8) was uploaded on 28 May. The raw data for analysing the modes of QSOs uploaded to Club Log are being made available by Michael, G7VJR on a regular basis, and Andreas, LA8AJA has prepared "a handy front-end to the data" which is available at <https://la8aja.com/modestats/index.php>.

### African DX

*Contacts with stations on the African continent count towards the SARL's All Africa Award ([www.sarl.org.za/public/awards/awards.asp](http://www.sarl.org.za/public/awards/awards.asp))*

C8T Mozambique DXpedition Video. A video on the May 2018 C8T Mozambique DXpedition by the Lions DX Team is now available on YouTube.com. The video was made by Olivier, ON7EI, and is 11:26 minutes long. To view it, go to [www.youtube.com/watch?v=pPTPBXe5gBg](http://www.youtube.com/watch?v=pPTPBXe5gBg)



Liberia, EL. Col, MM0NDX, plans to return to Liberia later this year (or early 2019) and will again be active as EL2EL. Full info will be forthcoming as plans develop.

Rwanda, 9X. 26 September to 10 October are the dates for the 9X0T DXpedition to Rwanda. Eight operators (I1HJT, I2YSB, IK2CIO, IK2CKR, IK2DIA, IK2HKT, IK2RZP and JA3USA) will be active on 160 to 10 m CW and SSB with three stations; RTTY will be used on 20 m only. IK7JWY (for HF) and IK0FTA (for 6 metres) will be the pilot stations. QSL via I2YSB. Real-time log search and OQRS for direct cards at <http://www.i2ysb.com/idt/>.

### African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

### Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 4 to 11 June 2018

RSGB 80 m Club Championship, Data  
19:00 - 20:30 UTC 4 June  
Geographic Focus: United Kingdom  
Participation: Worldwide  
Awards: United Kingdom  
Mode: RTTY, PSK  
Bands: 80 m Only  
Classes: (none)  
Exchange: RST and serial no  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: (see rules)  
Submit logs by: 23:59 UTC 5 June 2018

Upload log at: [www.rsgbcc.org/cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)  
Mail logs to: (none)  
Find rules at: [www.rsgbcc.org/hf/rules/2018/r80mcc.shtml](http://www.rsgbcc.org/hf/rules/2018/r80mcc.shtml)

ARS Spartan Sprint  
01:00 - 03:00 UTC 5 June  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW  
Bands: 80, 40, 20, 15, 10 m  
Classes: Skinny; Tubby  
Max power: 5 watts

Exchange: RST, state, province or country and power  
Work stations: Once per band  
Submit logs by: 7 June 2018  
E-mail logs to: [spartansprint@yahoo.com](mailto:spartansprint@yahoo.com)  
Mail logs to: (none)  
Find rules at: <http://arsgrp.blog-spot.com/2009/02/so-whats-spartan-sprint-and-how-do-i.html>

Phone Fray  
02:30 - 03:00 UTC 6 June  
Geographic Focus: North America  
Participation: Worldwide  
Mode: SSB  
Bands: 160, 80, 40, 20, 15 m  
Classes: Single Op  
Max power: 100 watts  
Exchange: NA: Name and state, province or country; non-NA: Name  
Work stations: Once per band  
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 03:00 UTC 8 June 2018  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at: [www.perluma.com/Phone\\_Fray\\_Con-test\\_Rules.pdf](http://www.perluma.com/Phone_Fray_Con-test_Rules.pdf)

CWops Mini-CWT Test  
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 6 June and 03:00 - 04:00 UTC 7 June  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op - QRP, low or high  
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts  
Exchange: Member: Name and member no; non-Member: Name and state, province or country  
Work stations: Once per band  
QSO Points: 1 point per QSO  
Multipliers: Each call once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 04:00 UTC 9 June 2018  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at: [www.cwops.org/cwt.html](http://www.cwops.org/cwt.html)

NRAU 10 m Activity Contest  
17:00 - 18:00 UTC (CW) and 18:00 - 19:00 UTC (SSB) and 19:00 - 20:00 UTC (FM) and 20:00 - 21:00 UTC (Dig) 7 June  
Geographic Focus: Nordic Europe  
Participation: Worldwide  
Mode: CW, SSB, FM, Digital  
Bands: 10 m Only  
Classes: (none)  
Exchange: RS(T) and 6-character grid square  
QSO Points: (see rules)  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 21 June 2018  
Upload log at: [http://ua9qcq.com/en/submit\\_log.php?lang=en](http://ua9qcq.com/en/submit_log.php?lang=en)  
Mail logs to: (none)  
Find rules at: [www.nrau.net/activity-contests/below-30mhz.html](http://www.nrau.net/activity-contests/below-30mhz.html)

SKCC Sprint Europe  
19:00 - 21:00 UTC 7 June  
Geographic Focus: Europe  
Participation: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: (none)  
Exchange: RST, state, province or country, name and SKCC no or power  
Work stations: Once per band  
QSO Points: (see rules)  
Multipliers: Each state, province, or country once  
Score Calculation: Total score = (total QSO points x total mults) and bonus points  
Submit logs by: 14 June 2018  
E-mail log summary to: (none)  
Post log summary at: [www.skccgroup.com/operating\\_activities/skse/submit-display.php?submit\\_id=165](http://www.skccgroup.com/operating_activities/skse/submit-display.php?submit_id=165)  
Mail logs to: (none)  
Find rules at: [www.skccgroup.com/operating\\_activities/skse/](http://www.skccgroup.com/operating_activities/skse/)

NCCC RTTY Sprint: 01:45 UTC-02:15 UTC 8 June  
Geographic Focus: North America  
Participation: Worldwide  
Mode: RTTY  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 10 June 2018  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)  
Mail logs to: (none)

Find rules at: [www.ncccsprint.com/rttyns.html](http://www.ncccsprint.com/rttyns.html)

NCCC Sprint

02:30 - 03:00 UTC 8 June

Geographic Focus: North America

Participation: Worldwide

Mode: CW

Bands: (see rules)

Classes: (none)

Exchange: Serial no, name and QTH

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 10 June 2018

E-mail logs to: (none)

Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)

Mail logs to: (none)

Find rules at: [www.ncccsprint.com/rules.html](http://www.ncccsprint.com/rules.html)

DRCG WW RTTY Contest

00:00 - 07:59 UTC and 16:00 - 23:59 UTC 9 June and

08:00 - 15:59 UTC 10 June

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: RTTY

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All-Band; Single Op All-Band 6 Hrs;

Single Op All-Band Unlimited; Multi-Op

Exchange: RST and CQ Zone

Work stations: Once per band

QSO Points: (see rules)

Multipliers: Each DXCC country once per band; Each VK, VE, JA and W call area once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 17 June 2018

E-mail logs to: [drcgww@drcg.de](mailto:drcgww@drcg.de)

Mail logs to: (none)

Find rules at: [www.drcg.de/drcgww/drcg-ww-rtty-english.html](http://www.drcg.de/drcgww/drcg-ww-rtty-english.html)

VK Shires Contest

06:00 UTC 9 June to 06:00 UTC 10 June

Geographic Focus: Australia

Participation: Worldwide

Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m

Classes: VK Single Op - rover or fixed; VK Multi-Two - rover or fixed; DX Single Op

Exchange: VK: RS(T) and Shire; non-VK: RS(T) and CQ Zone

Work stations: Once per band per mode

QSO Points: 1 point per QSO

Multipliers: VK: Each VK shire once per band per mode; VK: Each CQ zone once per band per mode; non-VK: Each VK shire once per band per mode

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 1 July 2018

E-mail logs to: [vkshires-logs@outlook.com](mailto:vkshires-logs@outlook.com)

Mail logs to: (none)

Find rules at: [www.wia.org.au/members/contests/wavks/](http://www.wia.org.au/members/contests/wavks/)

Asia-Pacific SSB Sprint

11:00 - 13:00 UTC 9 June

Geographic Focus: Asia/Pacific

Participation: Worldwide

Mode: SSB

Bands: 20, 15 m

Classes: Single Op Single Radio

Max power: Asia Pacific: 150 watts; Non-Asia Pacific: maximum legal

Exchange: RS and serial no

Work stations: Once per band

QSO Points: Asia-Pacific: 1 point per QSO; Non-Asia-Pacific: 1 point per QSO with an Asia-Pacific station

Multipliers: Each prefix once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 16 June 2018

E-mail logs to: [apsprint@jsfc.org](mailto:apsprint@jsfc.org)

Mail logs to: (none)

Find rules at: <http://jsfc.org/apsprint/aprule.txt>

SKCC Weekend Sprintathon

12:00 UTC 9 June to 24:00 UTC 10 June

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: (none)

Max operating hours: 24

Exchange: RST, state, province or country, name and SKCC no or NONE

Work stations: Once per band

QSO Points: 1 point per QSO

Bonus Points: (see rules)

Multipliers: Each state, province, or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 17 June 2018

Post log summary at: [www.skccgroup.com/operating\\_activities/weekend\\_sprintathon/submit-display.php](http://www.skccgroup.com/operating_activities/weekend_sprintathon/submit-display.php)

Mail logs to: (none)

Find rules at: [www.skccgroup.com/operating\\_activities/weekend\\_sprintathon/](http://www.skccgroup.com/operating_activities/weekend_sprintathon/)

Portugal Day Contest

12:00 UTC 9 June to 12:00 UTC 10 June

Geographic Focus: Worldwide

Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op - CW, SSB or mixed  
 Exchange: CT: RS(T) and District; non-CT: RS(T) and serial no  
 QSO Points: (see rules)  
 Multipliers: Each CT region and each DXCC country once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 1 September 2018  
 E-mail logs to: [rep-concursos@rep.pt](mailto:rep-concursos@rep.pt)  
 Mail logs to: REP – Rede dos Emissores Portugueses, Manager de Concursos e Diplomas, Avenida Yasser Arafar nº 4 A, 2770-375 Amadora, Portugal  
 Find rules at: [www.rep.pt/portugal\\_day\\_contest/rules.html](http://www.rep.pt/portugal_day_contest/rules.html)

GACW WWSA CW DX Contest  
 15:00 UTC 9 June to 15:00 UTC 10 June  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op All Band - QRP, low or high; Single Op Single Band - QRP, low or high; Multi-Single; Multi-Multi  
 Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts  
 Exchange: RST and CQ Zone no  
 QSO Points: 0 points per QSO with same country; 1 point per QSO with different country, same continent; 3 points per QSO with different continent; Non-SA stations: 5 points per QSO with South America  
 Multipliers: Each CQ zone once per band; Each country once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 30 July 2018  
 E-mail logs to: [logs@wwsatest.org](mailto:logs@wwsatest.org)  
 Mail logs to: GACW DX Contest, PO Box 9, B1875ZAA  
 Wilde, Buenos Aires, Argentina

Find rules at: [www.wwsatest.org/english](http://www.wwsatest.org/english)  
 Cookie Crumble QRP Contest  
 17:00 – 22:00 UTC 10 June  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: All  
 Bands: All, except WARC  
 Classes: Single Op  
 Max power: 5 watts CW/Digital; 10 watts SSB  
 Exchange: RS(T), state, province or country, cookie no and name  
 Work stations: Once per band  
 QSO Points: (see rules)  
 Score Calculation: Total score = total QSO points and bonus points  
 Submit logs by: 31 July 2018  
 E-mail logs to: [KB3VVE@gmail.com](mailto:KB3VVE@gmail.com)  
 Mail logs to: (none)  
 Find rules at: <http://w3atb.com/cookie-crumble/>

4 States QRP Group Second Sunday Sprint: 00:00 UTC-02:00 UTC 11 June  
 Geographic Focus: North America  
 Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 160, 80, 40, 20, 15, 10 m  
 Classes: Single Op  
 Exchange: Member: RS(T) and state, province or country and member no  
 Non-member: RS(T) and state, province or country and Power  
 Work stations: Once per band  
 QSO Points: 1 point per QSO with non-member  
 2 points per QSO with member  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 13 June 2018  
 E-mail logs to: (none)  
 Post log summary at: <http://qrpcontest.com/4sqrp>  
 Mail logs to: (none)  
 Find rules at: [http://www.4sqrp.com/SSS/sss\\_rules.pdf](http://www.4sqrp.com/SSS/sss_rules.pdf)

## Schoolboy makes silicon chips at home

We normally think of silicon chip fabrication as being a cutting-edge practice, requiring huge investments and hundreds of people.

However, we learned recently of Sam Zeloof, a 17-year-old high school student in the USA, who is making his own chips in his garage. Using ingenuity and equipment purchased via eBay, including things like an electron microscope he bought for less than the cost of shipping, Sam can fabricate features down to about 2 microns, though he says contamination issues mean 10 microns is the practical limit for functioning devices - because, after all, he's working in a garage, not a clean room.

More details are on the IEEE Spectrum website at <https://spectrum.ieee.org/semiconductors/devices/the-high-school-student-whos-building-his-own-integrated-circuits.amp.html>

## Next Week's Contests

NAQCC CW Sprint, 00:30 - 02:30 UTC 13 June  
Phone Fray, 02:30 - 03:00 UTC 13 June  
CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 13 June and 03:00 - 04:00 UTC 14 June  
RSGB 80 m Club Championship, CW 19:00 – 20:30 UTC 13 June  
NCCC RTTY Sprint 01:45 - 02:15 UTC 15 June  
NCCC Sprint 02:30 - 03:00 UTC 15 June  
All Asian DX CW Contest, 00:00 UTC 16 June to 24:00 UTC 17 June  
SMIRK Contest, 00:00 UTC 16 June to 24:00 UTC 17 June  
Ukrainian DX Classic RTTY Contest, 12:00 UTC 16 June to 11:59 UTC 17 June  
ARR BPSK63 Contest, 12:00 UTC 16 June to 12:00 UTC 17 June  
IARU Region 1, 50 MHz Contest 14:00 UTC 16 June to 14:00 UTC 17 June  
AGCW VHF/UHF Contest, 14:00 - 17:00 UTC 16 June (144) and 17:00 - 18:00 UTC 16 June (432)  
Stew Perry Topband Challenge, 15:00 UTC 16 June to 15:00 UTC 17 June  
West Virginia QSO Party, 16:00 UTC 16 June to 02:00 UTC 17 June  
Feld Hell Sprint, 18:00 - 19:59 UTC 16 June  
ARRL Kids Day, 18:00 - 23:59 UTC 16 June  
WAB 50 MHz Phone, 09:00 - 15:00 UTC 17 June  
Run for the Bacon QRP Contest, 01:00 - 03:00 UTC 18 June

### 2018 IARU HF World Championship Contest

The 2018 IARU HF World Championship Contest takes place the second full weekend of July, beginning at 12:00 UTC on Saturday 14 July and ending at 12:00 UTC on Sunday 15 July 2018. Both Single and Multi-operator stations may operate the entire 24-hour period. All licensed amateurs worldwide are eligible to participate in this contest.

The objective of this contest is to contact as many other amateurs as possible, especially IARU member society HQ stations, around the world using the 160, 80, 40, 20, 15 and 10 metre bands. Multipliers are the total number of ITU zones plus IARU Member Society HQ stations worked on each band (not mode). Thus, your Society's HQ stations participation is very important for the multipliers, e.g. ZS0HQ or ZS9HQ. IARU officials represent a maximum of four multipliers per band (AC, R1, R2 and R3).

You can find the complete rules at [www.arrl.org/iaru-hf-championship](http://www.arrl.org/iaru-hf-championship)

### New WRTC Awards - WAWRTC

The World Radiosport Team Championship takes place from 12:00 UTC on 14 July to 12:00 UTC on 15 July in parallel to the IARU HF Championship. Sixty-three teams will be competing from identical sites south of Berlin. QSO partners can directly support the contestants with QSOs. To stimulate contacts with the WRTC stations, five awards have been created, which we will introduce here during the next weeks.

The Worked All WRTC Stations (WAWRTC) award honours QSOs with all sixty-three stations. To apply for the award, one QSO with each station, regardless of band and mode, is needed. For Europeans, 80 and 40 will likely be the best bands (+20 m depending on propagation conditions). For DX operators from outside Europe 40 and 20 m are probably the best bet. <http://www.wrtc2018.de/>



*Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter*